AMENDMENTS TO THE CLAIMS

- (Currently Amended) A method for coloring a cellulose fiber, comprising:

 a step (1) of introducing a carboxylic group or a sulfonic acid group into cellulose fiber
 by an adhesion curing treatment, irradiation or immobilization with a binder;

 and a step (2) of treating the cellulose fiber having the carboxylic group or the sulfonic acid group introduced with an aromatic derivative having one or more hydroxyl groups and a metal salt simultaneously or separately.
- 2 (Original) The method for coloring a cellulose fiber according to claim 1, wherein carboxylic groups are introduced into the cellulose fiber by an adhesion curing treatment with a polycarboxylic acid.
- (Original) The method for coloring a cellulose fiber according to claim 1 or 2, wherein the aromatic derivative having one or more hydroxyl groups is dihydroxybenzoic acid, dihydroxybenzaldehyde, trihydroxybenzoic acid, trihydroxybenzaldehyde, or tannic acid.
- (Previously Presented) The method for coloring a cellulose fiber according to claim 1, wherein the metal salt is an iron salt.
- (Original) A colored cellulose fiber, colored by the method according to any one of claims 1 or 4.

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(Currently Amended) A method for producing a colored cellulose fiber,

comprising:

a step (1) of introducing a carboxylic group or a sulfonic acid group into a cellulose fiber

by an adhesion curing treatment, irradiation or immobilization with a binder; and

a step (2) of treating the cellulose fiber having the carboxylic group or the sulfonic acid

group introduced with an aromatic derivative having one or more hydroxyl groups and a metal

salt simultaneously or separately.

7. (Original) The method for producing a colored cellulose fiber according to claim

6, wherein carboxylic groups are introduced into the cellulose fiber by an adhesion curing

treatment with a polycarboxylic acid.

(Original) The method for producing a colored cellulose fiber according to claim

6 or claim 7, wherein the aromatic derivative having one or more hydroxyl groups is

dihydroxybenzoic acid, dihydroxybenzaldehyde, trihydroxybenzoic acid,

trihydroxybenzaldehyde, or tannic acid.

9. (Previously Presented) The method for producing a colored cellulose fiber

according to claim 6, wherein the metal salt is an iron salt.

10. (Previously Presented) A colored cellulose fiber, produced by the method

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according to claim 6.

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(New) The method for coloring a cellulose fiber according to claim 1, wherein a

carboxylic group or a sulfonic acid group are introduced into the cellulose fiber by irradiating the

fiber with an electron beam or gamma ray.

12. (New) The method for coloring a cellulose fiber according to claim 1, wherein a

carboxylic group or a sulfonic acid group are introduced into the cellulose fiber by

immobilization with urethane resins, glyoxal resins or acrylic resins as a binder.

(New) The method for producing a colored cellulose fiber according to claim 6,

wherein a carboxylic group or a sulfonic acid group are introduced into the cellulose fiber by

irradiating the fiber with an electron beam or gamma ray.

(New) The method for producing a colored cellulose fiber according to claim 6,

wherein a carboxylic group or a sulfonic acid group are introduced into the cellulose fiber by

immobilization with urethane resins, glyoxal resins or acrylic resins as a binder.

15. (New) The method for coloring a cellulose fiber according to claim 1, wherein

treatment with a metal salt is performed by immersion or spraying.

(New) The method for producing a colored cellulose fiber according to claim 6.

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wherein treatment with a metal salt is performed by immersion or spraying.

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17. (New) The method for coloring a cellulose fiber according to claim 1, wherein treatment with an aromatic derivative having one or more hydroxyl groups is performed by immersion or spraying.

18. (New) The method for producing a colored cellulose fiber according to claim 6, wherein treatment with an aromatic derivative having one or more hydroxyl groups is performed by immersion or spraying.

- (New) The method for coloring a cellulose fiber according to claim 1, wherein the cellulose fiber is colored without the use of a dye.
- (New) The method for coloring a cellulose fiber according to claim 2, wherein
 the adhesion amount of the polycarboxylic acid is from 0.1 to 30 wt%.

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